

Synthesis and membrane transport properties of bis(dihexylphosphorylmethyl)-1,4-diaminebutane

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Abstract

© 2016 Taylor & Francis Group, LLC. The membrane-transport properties have been studied. It was found that bis(dihexylphosphorylmethyl)-1,4-diaminebutane is a good extractant for triply charged metal ions such as Sc(III), Nd(III), and Sm(III). However, it does not exhibit any noticeable selectivity with respect to certain substrates. Bis(dihexylphosphorylmethyl)-1,4-diaminebutane is a good carrier of nitric acid. We have recorded the crystal structure of the complex of the reagent mentioned with the nitric acid.

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Keywords

alkaline earth metal, membrane-transport, Phosphorylated diamine